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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		Applicant(s)	
	09/929,278		BENTLEY, KEITH	
	Examiner		Art Unit	
	Miranda Le		2167	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 June 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 28-101 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 28-101 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 06/08/06 has been entered.

2. This communication is responsive to Amendment, filed 06/08/06.

Claims 28-101 are pending in this application. Claims 1-27 have been cancelled, claims 83-101 have been added. This action is made non-Final.

Claim Objections

3. Claims 100, 82 are objected to because of the following informalities:

Claim 100, line 3, "model directory. means for enabling" should be changed to "model directory, means for enabling".

Claim 82 improperly depends on claim 3, as claim 3 has been cancelled.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless:

(e) the invention was described in

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(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 28-30, 37-39, 49-56, 58-62, 66-70, 74, 78, 82-92, 99-101 are rejected under 35 U.S.C. 102(e) as being anticipated by Selvin et al. (US Patent No. 6,718,329).

Selvin anticipated independent claims 28, 39, 58, 66, 74, 83, 99, 101 by the following:

As per claim 28, Selvin teaches a computer program product comprising a computer readable medium having a computer program logic stored therein, the computer program logic comprising:

means for enabling a computing unit to store a root storage (*i.e. a node, col. 11, lines 41-45*) comprising a model directory (*i.e. logical or hierarchical relationship, col. 3, lines 7-19*) in the computer readable medium (*col. 3, lines 20-29, col. 7, lines 12-57, col. 8, lines 4-59*),

means for enabling said computing unit to store at least one model (*i.e. link type, col. 11, lines 46-59*) in said model directory, wherein said at least one model is for grouping related elements (*i.e. nodes, inter- node, col. 11, lines 46-59*), is identifiable by a unique identifier (*i.e. link identifier, col. 11, lines 46-59*), and comprises a control element list (*i.e. terms define logical position of nodes, col. 7, lines 22-43*) having variable size element chunks (*i.e. length, col. 7, lines 22-43*) containing control elements, and a graphic element list having variable sized element chunks containing graphic elements (*i.e. a highlight or bold text format code, col. 8, lines 4-24*) (*col. 7, lines 12-57, col. 8, lines 4-59*).

As per claim 39, Selvin teaches a computer program product comprising a computer readable medium having computer program logic, the computer, program logic comprising:

means (*i.e. nodes 60 and link definitions 70 can be stored in a file, col. 9, lines 21-47*) for enabling a computer system to store at least one root storage (*i.e. a node, col. 11, lines 41-45*) in a storage area (*i.e. hypertext database, col. 3, lines 20-29*) (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 1-59*);

means for enabling said computer system to store at least one model directory storage (*i.e. logical or hierarchical relationship, col. 3, lines 7-19*) in said at least one root storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 41-59*);

means for enabling said computer system to store at least one model storage (*i.e. link type, col. 11, lines 46-59*) in said model directory storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*);

means for enabling said computer system to store in said at least one model storage a graphic element list storage (*i.e. a highlight or bold text format code, col. 8, lines 4-24*) having element chunk streams (*i.e. LABEL field, CONTENT field, NODE TYPE field, col. 7, lines 22-43*) containing variable sized graphic elements and a control element list storage (*i.e. terms define logical position of nodes, col. 7, lines 22-43*) having element chunk streams containing variable sized control elements (*i.e. length, col. 7, lines 22-43*) (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*);

means for enabling said computer system to assign a preselected number of elements (*i.e. count the number of generated nodes for the source documents, Step 902, Fig. 9*) to each said element chunk stream (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*);

means for enabling said computer system to allocate (*i.e. assign each node a unique link identifier, Step 902, Fig. 9*) each of said preselected number of elements to an element chunk stream in one of said control element list storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As to claims 58, 66, 74, Selvin teaches a computer readable medium containing a file (*i.e. nodes 60 and link definitions 70 can be stored in a file, col. 9, lines 21-47*) for storing an element list storage (*i.e. hypertext database, col. 3, lines 20-29*) including at least one element chunk streams (*i.e. paragraph, col. 7, lines 22-43*), wherein said at least one element chunk stream comprises an element chunk header (*i.e. heading 1, paragraph 1 and so forth, col. 7, lines 22-43*) for storing information about the at least one element chunk and at least one variable sized element (*i.e. length, col. 7, lines 22-43*) associated with said element chunk header (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As per claim 83, Selvin teaches a computer readable medium for storing data for access by an application program, comprising:

a file format (*i.e. nodes 60 and link definitions 70 can be stored in a file, col. 9, lines 21-47*) defining a structure of a file stored in said computer readable medium (*i.e. hypertext database, col. 3, lines 20-29*), the file format including,

elements (*i.e. nodes, inter- node, col. 11, lines 46-59*) stored in the computer readable medium, the elements being variable sized data records (*i.e. length, col. 7, lines 22-43*) arranged

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in a format that can be interpreted by a computer program (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*),

element chunks (*i.e. LABEL field, CONTENT field, NODE TYPE field, col. 7, lines 22-43*) stored in the computer readable medium, the element chunks being variable sized and including groups of the elements, the element chunks having a unique name (*i.e. LABEL, CONTENT, NODE TYPE, col. 7, lines 22-43*) and a fixed header (*i.e. heading 1, paragraph 1 and so forth, col. 7, lines 22-43*) including at least one of a number of elements in the element chunks (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*),

a model stored (*i.e. link type, col. 11, lines 46-59*) in the computer readable medium, the model including groups of related element chunks and a model header stream (*i.e. heading, col. 7, lines 22-43*), the model header stream including at least one of a model name, units, or a geometric range for the model (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 1-59*), and

a root storage (*i.e. a node, col. 11, lines 41-45*) stored in the computer readable medium, the root storage including at least one model (*i.e. logical or hierarchical relationship, col. 3, lines 7-19*) (*col. 7, lines 12-57, col. 8, lines 4-59*).

As per claim 99, Selvin teaches a computer program product comprising a computer readable medium having a computer program logic stored therein, the computer program logic comprising:

means for enabling said computer system to allocate elements having a variable size (*i.e. length, col. 7, lines 22-43*) to element chunks, the element chunks being variable sized and including groups of the elements (*i.e. nodes, inter- node, col. 11, lines 46-59*), the element

chunks (*i.e. LABEL field, CONTENT field, NODE TYPE field, col. 7, lines 22-43*) having a unique name (*i.e. LABEL, CONTENT, NODE TYPE, col. 7, lines 22-43*) and a fixed header including at least one of a number of elements (*i.e. heading 1, paragraph 1 and so forth, col. 7, lines 22-43*) in the element chunk (*col. 7, lines 12-57, col. 8, lines 4-59*);

means for enabling said computing unit to store in the computer readable medium at least one model (*i.e. link type, col. 11, lines 46-59*), wherein said at least one model is for grouping related elements, is identifiable by a unique identifier (*i.e. link identifier, col. 11, lines 46-59*), and comprises a control element list having variable sized element chunks containing control elements (*i.e. terms define logical position of nodes, col. 7, lines 22-43*), and a graphic element list having variable sized element chunks containing graphic elements (*i.e. a highlight or bold text format code, col. 8, lines 4-24*) (*col. 7, lines 12-57, col. 8, lines 4-59*); and

means for enabling a computing unit to store a root storage (*i.e. a node, col. 11, lines 41-45*) comprising the model (*i.e. logical or hierarchical relationship, col. 3, lines 7-19*) in the computer readable medium (*i.e. hypertext database, col. 3, lines 20-29*) (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As per claim 101, Selvin teaches a CAD design file (*CAD programs, col. 4, lines 19-34*) having a file format (*i.e. nodes 60 and link definitions 70 can be stored in a file, col. 9, lines 21-47*) and stored on a computer readable medium (*i.e. hypertext database, col. 3, lines 20-29*), the CAD design file comprising:

elements (*i.e. nodes, inter- node, col. 11, lines 46-59*) representing items of the CAD design, the elements being variable sized data records (*i.e. length, col. 7, lines 22-43*) arranged in a format that can be interpreted by a computer program (*col. 7, lines 12-57, col. 8, lines 4-59*),

element chunks (*i.e. LABEL field, CONTENT field, NODE TYPE field, col. 7, lines 22-43*) including groups of the elements, the element chunks having a unique name (*i.e. LABEL, CONTENT, NODE TYPE, col. 7, lines 22-43*) and a fixed header including a least one of a number of elements (*i.e. heading 1, paragraph 1 and so forth, col. 7, lines 22-43*) in the element chunk, the element chunks having a variable size, the groups of elements including control elements (*i.e. terms define logical position of nodes, col. 7, lines 22-43*) having no physical representation and graphic elements having a graphical representation (*i.e. a highlight or bold text format code, col. 8, lines 4-24*) (*col. 7, lines 12-57, col. 8, lines 4-59*),

a model (*i.e. LABEL field, CONTENT field, NODE TYPE field, col. 7, lines 22-43*), the model including groups of related element chunks and a model header stream (*i.e. heading, col. 7, lines 22-43*), the model header stream including at least one of a model name (*i.e. LABEL, CONTENT, NODE TYPE, col. 7, lines 22-43*), units, or a geometric range for the model; (*col. 7, lines 12-57, col. 8, lines 4-59*) and

a root storage (*i.e. a node, col. 11, lines 41-45*) including at least one model and a control model (*i.e. logical or hierarchical relationship, col. 3, lines 7-19*) storing information shared across other models in the root storage (*col. 7, lines 12-57, col. 8, lines 4-59*).

As per claim 29, Selvin teaches means for enabling said computing unit to store a control model in said root storage, wherein said control model includes a global graphic element list and

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a global control elements list, wherein said global graphic element list contains at least one global element chunk having at least one global graphic element and said global control element list contains at least one global element chunk having at least one global control element (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As per claim 30, Selvin teaches said root storage further comprises at least one of a first stream containing a header, a second stream containing session information, a third stream containing a manifest and a fourth stream containing file properties (*col. 7, lines 12-57, col. 8, lines 4-59, col. 9, lines 21-4, col. 11, lines 16-59*).

As per claim 37, Selvin teaches said root storage is adapted to be operable with a computer aided design program (*col. 4, lines 19-34*).

As per claim 38, Selvin teaches said root storage further comprises at least one of a stream and a storage, neither of which are contained in said model directory (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As per claim 49, Selvin teaches means for enabling said computer system to associated a header with said at least one root storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As per claim 50, Selvin teaches said computer system is the Internet (*col. 12, lines 17-39*).

As per claim 51, Selvin teaches said computer system is an Intranet (*col. 12, lines 17-39*).

As per claim 52, Selvin teaches said computer system is a local area network (*col. 12, lines 17-39*).

As per claim 53, Selvin teaches said storage area is a file (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As per claim 54, Selvin teaches said storage area is adapted to be operable with a computer added design program (*col. 4, lines 19-34*).

As per claim 55, Selvin teaches means for enabling said computer system to store in said root storage at least one of a first stream containing a header, a second stream containing session information, a third stream containing a manifest and a fourth stream containing file properties (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As per claim 56, Selvin teaches means for enabling said computer system to store at least one of a stream and a storage, neither of which are contained in said model directory, in said root storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As to claims 59, 67, 75, Selvin teaches said element list storage is a graphic element list storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As to claims 60, 68, 76, Selvin teaches said element list storage is a control element list storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As to claims 61, 69, 77, Selvin teaches said element list storage is a global graphic element list storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As to claims 62, 70, 78, Selvin teaches said element list storage is a global control element list storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As per claim 82, Selvin teaches the element chunks have unique names within the elements lists (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

As per claim 84, Selvin teaches element lists including element chunks classified according to their meaning in the model, the element lists including the unique name for each

element chunk in the respective element list (*col. 2, line 55 to col. 3, line 50, col. 7, lines 12-57, col. 8, lines 4-59*).

As per claim 85, Selvin teaches the elements include control elements having no physical representation and graphic elements having a graphical representation (*col. 7, lines 12-57, col. 8, lines 4-59*).

As per claim 86, Selvin teaches the element lists include a graphic element list listing the graphic elements and a control element list listing the control elements (*col. 8, lines 4-59*).

As per claim 87, Selvin teaches the element chunks include a fixed number of elements (*col. 7, lines 12-57, col. 8, lines 4-59*).

As per claim 88, Selvin teaches:

a plurality of models (*col. 7, lines 12-57, col. 8, lines 4-59*); and

a model directory stored in the root storage and including a list of the models, the models having a unique name within their respective model directory (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 41-45*).

As per claim 89, Selvin teaches the root storage further includes a file header stream, a session information stream, a manifest information stream, or a file properties stream stored therein (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 41-45*).

As per claim 90, Selvin teaches a control model directly stored in the root storage and storing information shared across other models in the root storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 41-45*).

As per claim 91, Selvin teaches said root storage further comprises a control model storage containing a control model header, a global control element list storage and a global graphic element list storage, wherein said global control element list storage and said global graphic element list storage contain element chunk including global elements (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 41-45*).

As per claim 92, Selvin teaches said global elements contain information relevant for all models in said model directory storage (*col. 7, lines 12-57, col. 8, lines 4-59*).

As per claim 100, Selvin teaches means for enabling said computer system to store a graphic element list storage and a control element list storage in each control model (*col. 7, lines 12-57, col. 8, lines 4-59*).

means for compressing each element chunk stream to be stored in said graphic element list storage or said control model list storage in said control model directory Shiba teaches ([0015-0027]).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 31-32, 40, 43-45, 48, 57, 63, 71, 79, 93, 94 are rejected under 35 U.S.C. 103(a) as being unpatentable over Selvin et al. (US Patent No. 6,718,329), in view of Shiba et al. (US Pub. No. 20010004245).

As to claims 31, 93, Selvin does not expressly teach at least one element chunk in said graphic element list is compressed.

However, Shiba teaches one element chunk in said graphic element list is compressed (*i.e. The CAD data compressing method, [0027]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Shiba at the time the invention was made to modify the system of Selvin to include one element chunk in said graphic element list is compressed as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD data in which repetitive figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

As to claims 32, 94, Selvin does not expressly teach at least one element chunk in said control element list is compressed.

However, Shiba teaches one element chunk in said control element list is compressed (*i.e. The CAD data compressing method, [0027]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Shiba at the time the invention was made to modify the system of Selvin to include one element chunk in said control element list is compressed as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD data in which repetitive figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

As per claim 40, Selvin does not expressly teach means for enabling said computer system to compress each element chunk stream; and means for enabling said computer system to store at least one compressed element chunk stream in at least one of the graphic element list storage and control element list storage.

However, Shiba teaches these limitations (*i.e. The CAD data compressing method, [0027]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Shiba at the time the invention was made to modify the system of Selvin to include these limitations as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD data in which repetitive figures and non-repetitive

figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

As to claims 43, 48, Selvin does not expressly teach said predelected number is a maximum number.

However, Shiba teaches predelected number is a maximum number (*i.e. exceeds the predetermine value, [0064]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Shiba at the time the invention was made to modify the system of Selvin to include predelected number is a maximum number as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD data in which repetitive figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

As per claim 44, Selvin teaches means for enabling said computer system to assign a preselected number of elements to said additional element chunk stream; means for enabling said computer system to store new elements in said additional element chunk stream (*col. 7, lines 12-57, col. 8, lines 4-59, col. 11, lines 16-59*).

Selvin does not expressly teach means for enabling said computer system to create an additional element chunk stream when the number of elements exceeds said preselected number of elements assigned to each element chunk stream.

However, Shiba teaches means for enabling said computer system to create an additional element chunk stream when the number of elements exceeds said preselected number of elements assigned to each element chunk stream (*i.e. exceeds the predetermine value, [0064]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Shiba at the time the invention was made to modify the system of Selvin to include means for enabling said computer system to create an additional element chunk stream when the number of elements exceeds said preselected number of elements assigned to each element chunk stream as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD data in which repetitive figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

As per claim 45, Shiba teaches means for enabling said computer system to compress each additional element chunk stream; and means for enabling said computer system to store at least one additional compressed element chunk in at least one of said graphic element and said control element list (*i.e. The CAD data compressing method, [0027]*).

As per claim 57, Selvin teaches means for enabling said computer system to store a control model in each root storage; means for enabling said computer system to store a graphic element list storage and a control element list storage in each control model; means for enabling said computer system to allocate elements to element chunk streams in said control element list

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storage and said graphic element list storage (*col. 7, lines 12-57, col. 8, lines 4-59, col. 9, lines 21-4, col. 11, lines 16-59*).

Selvin does not expressly teach means for enabling said computer system to compress each element chunk stream to be stored in said graphic element list storage or said control model list storage in said control model directory.

However, Shiba teaches one element chunk stream is compressed (*i.e. The CAD data compressing method, [0027]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Shiba at the time the invention was made to modify the system of Selvin to include one element chunk stream is compressed as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD data in which repetitive figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

As to claims 63, 71, 79, Selvin does not expressly teach said at least one element chunk stream is compressed.

However, Shiba teaches one element chunk stream is compressed (*i.e. The CAD data compressing method, [0027]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Shiba at the time the invention was made to modify the system of Selvin to include one element chunk stream is compressed as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD data in which repetitive

figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

8. Claims 33-34, 41, 64, 72, 80, 95-96 are rejected under 35 U.S.C. 103(a) as being unpatentable over Selvin et al. (US Patent No. 6,718,329), in view of Loveland et al. (US Pub. No. 20020161608).

As to claims 33, 95, Selvin does not expressly teach at least one element chunk in said graphic element list is encrypted.

However, Loveland teaches one element chunk in said graphic element list is encrypted (*i.e. CAD file 202, encryption, [0094-0097]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Loveland at the time the invention was made to modify the system of Selvin to include one element chunk in said graphic element list is encrypted as taught by Loveland. One of ordinary skill in the art would be motivated to make this combination in order to create an access protocol with user ID's and passwords or other security, encryption or access limitation measures, as doing so would give the added benefit of allowing multiple users to remotely, securely access the information and model via a computer network.

As to claims 34, 96, Selvin does not expressly teach at least one element chunk in said control element list is encrypted.

However, Loveland teaches one element chunk in said control element list is encrypted (*i.e. CAD file 202, encryption, [0094-0097]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Loveland at the time the invention was made to modify the system of Selvin to include one element chunk in said control element list is encrypted as taught by Loveland. One of ordinary skill in the art would be motivated to make this combination in order to create an access protocol with user ID's and passwords or other security, encryption or access limitation measures, as doing so would give the added benefit of allowing multiple users to remotely, securely access the information and model via a computer network.

As per claim 41, Selvin does not expressly means for enabling said computer system to encrypt each element chunk stream; and

means for enabling said computer system to store at least one encrypted element chunk stream in at least one of the graphic element list storage and control element list storage.

However, Loveland teaches these limitations (*i.e. CAD file 202, encryption, [0094-0097]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Loveland at the time the invention was made to modify the system of Selvin to include these limitations as taught by Loveland. One of ordinary skill in the art would be motivated to make this combination in order to create an access protocol with user ID's and passwords or other security, encryption or access limitation measures, as doing so would give the added benefit of allowing multiple users to remotely, securely access the information and model via a computer network.

As to claims 64, 72, 80, Selvin does not expressly teach said at least one element chunk stream is encrypted.

However, Loveland teaches one element chunk stream is encrypted (*i.e. CAD file 202, encryption, [0094-0097]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Loveland at the time the invention was made to modify the system of Selvin to include one element chunk stream is encrypted as taught by Loveland. One of ordinary skill in the art would be motivated to make this combination in order to create an access protocol with user ID's and passwords or other security, encryption or access limitation measures, as doing so would give the added benefit of allowing multiple users to remotely, securely access the information and model via a computer network.

8. Claims 35-36, 42, 46-47, 65, 73, 81, 97-98 are rejected under 35 U.S.C. 103(a) as being unpatentable over Selvin et al. (US Patent No. 6,718,329), in view of Shiba et al. (US Pub. No. 20010004245), and further in view of Loveland et al. (US Pub. No. 20020161608).

As to claims 35, 98, Selvin does not teach at least one element chunk in said graphic element list is compressed. Shiba teaches *the CAD data compressing method, [0027]*, ([0015-0027]).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin, and Shiba at the time the invention was made to modify the system of Selvin to include one element chunk in said graphic element list is compressed as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD

data in which repetitive figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

Selvin, Shiba do not explicitly teach at least one element chunk in said graphic element list is encrypted.

However, Loveland teaches one element chunk in said graphic element list is encrypted (*i.e. CAD file 202, encryption, [0094-0097]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin, Shiba and Loveland at the time the invention was made to modify the system of Selvin to include one element chunk in said graphic element list is encrypted as taught by Loveland. One of ordinary skill in the art would be motivated to make this combination in order to create an access protocol with user ID's and passwords or other security, encryption or access limitation measures, as doing so would give the added benefit of allowing multiple users to remotely, securely access the information and model via a computer network.

As to claims 36, 97, Selvin does not explicitly teach at least one element chunk in said control element list is compressed.

Shiba teaches this limitation (*i.e. The CAD data compressing method, [0027]*) (*[0015-0027]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin, and Shiba at the time the invention was made to modify the system of Selvin to include at least one element chunk in said control element list is compressed as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD

data in which repetitive figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

Selvin and Shiba do not expressly teach at least one element chunk in said control element list is encrypted.

However, Loveland teaches one element chunk in said control element list is encrypted (*i.e. CAD file 202, encryption, [0094-0097]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin, Shiba and Loveland at the time the invention was made to modify the system of Selvin to include one element chunk in said control element list is encrypted as taught by Loveland. One of ordinary skill in the art would be motivated to make this combination in order to create an access protocol with user ID's and passwords or other security, encryption or access limitation measures, as doing so would give the added benefit of allowing multiple users to remotely, securely access the information and model via a computer network.

As per claim 42, Selvin does not expressly teach means for enabling said computer system to compress and encrypt each element chunk stream; and

means for enabling said computer system to store at least one compressed and encrypted element chunk stream in at least one of the graphic element list storage and control element list storage.

However Shiba teaches means for enabling said computer system to compress each element chunk stream; and means for enabling said computer system to store at least one

compressed element chunk stream in at least one of the graphic element list storage and control element list storage (*i.e. The CAD data compressing method, [0027]*), (*[0015-0027]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Shiba at the time the invention was made to modify the system of Selvin to include one element chunk in said control element list is compressed as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD data in which repetitive figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

Loveland teaches means for enabling said computer system to encrypt each element chunk stream; and means for enabling said computer system to store at least one encrypted element chunk stream in at least one of the graphic element list storage and control element list storage (*i.e. CAD file 202, encryption, [0094-0097]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin, Shiba and Loveland at the time the invention was made to modify the system of Selvin to include means for enabling said computer system to compress and encrypt each element chunk stream; and means for enabling said computer system to store at least one compressed and encrypted element chunk stream in at least one of the graphic element list storage and control element list storage as taught by Shiba and Loveland. One of ordinary skill in the art would be motivated to make this combination in order to create an access protocol with user ID's and passwords or other security, encryption or access limitation measures, as doing so would give the added benefit of allowing multiple users to remotely, securely access the information and model via a computer network.

As to claims 46, Selvin and Shiba do not expressly teach means for enabling said computer system to encrypt each additional element chunk stream; and means for enabling said computer system to store at least one additional encrypted element chunk in at least one of said graphic element and said control element list.

However, Loveland teaches means for enabling said computer system to encrypt each additional element chunk stream; and means for enabling said computer system to store at least one additional encrypted element chunk in at least one of said graphic element and said control element list (*i.e. CAD file 202, encryption, [0094-0097]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin, Shiba and Loveland at the time the invention was made to modify the system of Selvin and Shiba to include means for enabling said computer system to encrypt each additional element chunk stream; and means for enabling said computer system to store at least one additional encrypted element chunk in at least one of said graphic element and said control element list as taught by Loveland. One of ordinary skill in the art would be motivated to make this combination in order to create an access protocol with user ID's and passwords or other security, encryption or access limitation measures, as doing so would give the added benefit of allowing multiple users to remotely, securely access the information and model via a computer network.

As per claim 47, Selvin does not expressly teach means for enabling said computer system to compress and encrypt each additional element chunk stream; and

means for enabling said computer system to store at least one additional encrypted and compressed element chunk in at least one of said graphic element and said control element list.

However Shiba teaches means for enabling said computer system to compress each additional element chunk stream; and means for enabling said computer system to store at least one additional compressed element chunk in at least one of said graphic element and said control element list (*i.e. The CAD data compressing method, [0027]*) ([0015-0027]).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Shiba at the time the invention was made to modify the system of Selvin to include one element chunk in said control element list is compressed as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD data in which repetitive figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

Further, Loveland teaches means for enabling said computer system to encrypt each additional element chunk stream; and means for enabling said computer system to store at least one additional encrypted element chunk in at least one of said graphic element and said control element list (*i.e. CAD file 202, encryption, [0094-0097]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin, Shiba and Loveland at the time the invention was made to modify the system of Selvin to include means for enabling said computer system to compress and encrypt each additional element chunk stream; and means for enabling said computer system to store at least one additional encrypted and compressed element chunk in at least one of said graphic element and said control element list as taught by Shiba and Loveland. One of ordinary skill in the art would

be motivated to make this combination in order to create an access protocol with user ID's and passwords or other security, encryption or access limitation measures, as doing so would give the added benefit of allowing multiple users to remotely, securely access the information and model via a computer network.

As to claims 65, 73, 81, Selvin does not expressly teach said at least one element chunk stream is compressed.

Shiba teaches one element chunk stream is compressed (*i.e. The CAD data compressing method, [0027]*) (*[0015-0027]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin and Shiba at the time the invention was made to modify the system of Selvin to include one element chunk stream is compressed as taught by Shiba. One of ordinary skill in the art would be motivated to make this combination in order to handle a CAD data in which repetitive figures and non-repetitive figures co-exist in view of Shiba, as doing so would give the added benefit of handling large CAD data.

Selvin does not expressly teach said at least one element chunk stream is encrypted. Loveland teaches one element chunk stream is encrypted (*i.e. CAD file 202, encryption, [0094-0097]*).

It would have been obvious to one of ordinary skill of the art having the teaching of Selvin, Shiba and Loveland at the time the invention was made to modify the system of Selvin to include one element chunk stream is encrypted as taught by Loveland. One of ordinary skill in the art would be motivated to make this combination in order to create an access protocol with

user ID's and passwords or other security, encryption or access limitation measures, as doing so would give the added benefit of allowing multiple users to remotely, securely access the information and model via a computer network.

Response to Arguments

9. Applicant's arguments regarding none of the cited prior arts teach the structural of a file with respect to new claims 83-101 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

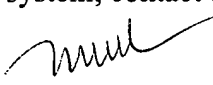
10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Miranda Le whose telephone number is (571) 272-4112. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Cottingham, can be reached on (571) 272-7079. The fax number to this Art Unit is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Miranda Le
July 12, 2006


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